

19990413.qrp v01_n425.qrl.990413

Date: Tue, 13 Apr 1999 19:03:13 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1425

QRP-L Digest 1425

Topics covered in this issue include:

- 1) [37979] QRP/QRO items for sale
by K0su@kktv.com
- 2) [37980] Re: "pruning" temporary antennae
by "Bruce" <Bruce2@prodigy.net>
- 3) [37981] Re: Ten-Tec PC Rcvr
by "George Heron" <n2apb@erols.com>
- 4) [37982] Re: Off topic: unassembled Heathkit FS
by "BC" <bcrow@powerlink.net>
- 5) [37983] here's a stupid idea...
by Mighty Mik <mitymik@hooked.net>
- 6) [37984] Re: Contest Scoring - A suggestion
by Bob Hightower <ki7mn@extremezone.com>
- 7) [37985] K0FRP's formula to beat Bob N4BP
by Alan Dawkins <alk0frp@earthlink.net>
- 8) [37986] 13.8V-14.1V will work for charging the K2 internal battery
by Wayne Burdick <n6kr@elecraft.com>
- 9) [37987] Re: PatComm PC-9000 XCVR
by "Michael A. Newell" <wb4huc@texas.net>
- 10) [37988] Ham Radio Tattoos!
by Zeek Zilch <zeekzilch@chisp.net>
- 11) [37989] [Fwd: SPRING BOUQUET---FLOWER STATION SCHEDULE (APRIL 11th - APRIL 18th)]
by Earl Murphy <earlmurf@telusplanet.net>
- 12) [37990] OHR Lucky!
by Zeek Zilch <zeekzilch@chisp.net>
- 13) [37991] Re: [here's (another) stupid idea...]
by Roy Lincoln <wa4dou@usa.net>
- 14) [37992] My ohr-400 sold
by "Walter D. Amos" <waltk8cv@surfree.com>
- 15) [37993] Re: here's a stupid idea...
by Jim Lowman <jmlowman@ix.netcom.com>
- 16) [37994] Results of spring sale
by "Stephen Gibson" <SWGibson@worldnet.att.net>
- 17) [37995] I need to change e-mail
by B1ljohn@aol.com
- 18) [37996] Re: 3rd World NC20 kits
by Bradley Mitchell <wb8ygg@yahoo.com>

- 19) [37997] Sick Pixie :(
by Jim Glover <psykey@okcforum.org>
- 20) [37998] miles per watt?
by PUNISHER3@aol.com
- 21) [37999] Re: Spread Spectrum
by Vic Rosenthal <rakefet@rakefet.com>
- 22) [38000] I did it !
by "Charles D. Feigley" <wa8cul@gte.net>
- 23) [38001] Re: miles per watt?
by "Paul Helbert, Wv3j" <phelbert@rica.net>
- 24) [38002] The NW QRP Club's "NWQ" now on line
by "Bill Todd" <bill@willapabay.org>
- 25) [38003] Re: I did it !
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
- 26) [38004] Spring QSO Party - The N8ET Story
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 27) [38005] world-wide frequency allocation charts on web?
by Wayne Burdick <n6kr@elecraft.com>
- 28) [38006] subscriptions
by Rich Wilkerson <richqrp@home.com>
- 29) [38007] Re: I did it !
by Brian Murrey <brian@iquest.net>
- 30) [38008] Final Tribute to Atlanticon Prize Donors
by "George Heron" <n2apb@erols.com>
- 31) [38009] Re: miles per watt?
by "Justin McAllister" <kd5ako@hotmail.com>
- 32) [38010] Re: Off topic: unassembled Heathkit FS
by "BC" <bcrow@powerlink.net>
- 33) [38011] Miles per Watt ==thanks==
by PUNISHER3@aol.com
- 34) [38012] 10.120MHz number station.
by Niels Jensen Kristjansson <nkristja@cadvision.com>
- 35) [38013] Re: 10.120MHz number station.
by PUNISHER3@aol.com
- 36) [38014] Re: 10.120MHz number station.
by "Rich Wilkerson" <richqrp@home.com>
- 37) [38015] 10.120MHz number station.
by R Hayden <rhayden@dzdn.com>
- 38) [38016] Re: 10.120MHz number station.
by "Denis Englander" <ko6gfg@slip.net>
- 39) [38017] ARCI Logs
by malman@world.std.com (Joel Malman)
- 40) [38018] SST 20 Tuning Range - More!
by "Arthur G. Silvers" <ags@ieee.org>
- 41) [38019] Bencher's Mercury prototype spotted
by "Ed Tanton" <n4xy@att.net>
- 42) [38020] Re: K0FRP's formula to beat Bob N4BP
by Bob Patten <n4bp@bc.seflin.org>

43) [38021] Re: [Elecraft] 13.8V-14.1V will work for charging the K2 internal battery
by "Radman" <radman@best.com>
44) [38022] Re: ARCI Logs
by Joe Gervais <vole@primenet.com>
45) [38023] Re: Spread Spectrum
by "John Moriarity" <k6qq@hdo.net>
46) [38024] Sumner praises Chief Zombie...
by "Radman" <radman@best.com>
47) [38025] Ham shack cleaning
by Jim Hale <kj5tf@yahoo.com>
48) [38026] Re: [Elecraft] RS Switch Mode Travel Supply
by DYARNES@aol.com
49) [38027] ARCI Spring Score
by AE0Q V31RY <v31ry@ix.netcom.com>
50) [38028] Re: I did it !
by "Francis Callahan" <colcal@srv.net>
51) [38029] ARCI QSO Party - mW WAS
by Jim Hale <kj5tf@yahoo.com>
52) [38030] Need a ride
by pierce@rice.edu (George F. Pierce)
53) [38031] RE: Half squares and Bobtails on 2 meters
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
54) [38032] Numbers Stations -- where ever they are
by Bruce Muscolino <w6toy@erols.com>
55) [38033]
by Mark R Milburn <kq0i@juno.com>
56) [38034] Re: IC-706 Power Consumption @ 5w ?(is this qrp?)
by Jkn1olo@aol.com
57) [38035] (no subject)
by David Heintzleman <bchurch@megavision.com>
58) [38036] need help with an interface cable
by Scott Howell <whowell@hq.nasa.gov>
59) [38037] Re: 10.120MHz number station.
by Brian Murrey <brian@iquest.net>
60) [38038] RS Power supply
by "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>
61) [38039] Re: 10.120MHz number station.
by Jeff Grudin <grudin@pacific.vdbs.com>
62) [38040] Spread Spectrum - more
by Laura Halliday <lha@sdr.utias.utoronto.ca>
63) [38041] Re: Spread Spectrum
by Dick Rucker <rrucker@clark.net>
64) [38042] Medium Wave Web-site
by Thomas Kuehl <ac7a@uswest.net>
65) [38043] Spring sale item
by "Stephen Gibson" <SWGibson@worldnet.att.net>
66) [38044] got my answer on cable

by Scott Howell <showell@hq.nasa.gov>
67) [38045] Re: need help with an interface cable
by "Richard Brummer" <obvious@bestweb.net>
68) [38046] kinda qrp but qslmaker program question
by Scott Howell <showell@hq.nasa.gov>
69) [38047] Solar Flux ?
by "Edward A Kwik jr" <eakwikjr@hti.com>
70) [38048] Re: need help with an interface cable
by "Mark A. Andrews" <KE4IOF@HiWAAY.net>
71) [38049] Sick Pixie update
by Jim Glover <psykey@okcforum.org>
72) [38050] Power supply
by "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>
73) [38051] Re: Solar Flux ?
by PHILLIPS RICHARD <phillips@msoe.edu>
74) [38052] Antenna patterns
by "Edward A Kwik jr" <eakwikjr@hti.com>
75) [38053] Reminder - NEQRP meet at ARRL HQ this Sunday!
by "Tracy, Michael, KC1SX" <mtracy@arrl.org>
76) [38054] Re: need help with an interface cable
by Brian Murrey <brian@iquiest.net>
77) [38055] Radio Shack PS
by "George Goodroe" <goodroe@worldnet.att.net>
78) [38056] Re: "pruning" temporary antennae
by Ed Loranger <we6w@qsl.net>
79) [38057] Re: need help with an interface cable
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
80) [38058] Re: Spread Spectrum
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
81) [38059] Amateur Radio Spectrum Protection Act of 1999
by "George Goodroe" <goodroe@worldnet.att.net>
82) [38060] Re: 10.120MHz number station.
by w4bws@juno.com
83) [38061] Re: here's a stupid idea...
by w4bws@juno.com
84) [38062] Re: Solar Flux ?
by Russ Hines <radioruss@fuse.net>
85) [38063] Re: Solar Flux ?
by Russ Hines <radioruss@fuse.net>
86) [38064] FS:OHR 100A
by "V.C. Angell" <angell@northernnet.com>
87) [38065] RE: 10T Dials
by Larry East <w1hue@amsat.org>

Date: 12 Apr 1999 17:10:08 -0700
From: K0su@kktv.com

To: qrp-1@Lehigh.EDU
Subject: [37979] QRP/QRO items for sale
Message-ID: <199904122304.TAA36396@nss4.cc.Lehigh.EDU>

The six meter equipment is spoken for. The ICOM 725 is still available.

Rick
K0SU
Colorado Springs, CO
CQC #100 -- QRP-L #539
www.qsl.net/k0su

Date: Mon, 12 Apr 1999 16:33:38 -0700
From: "Bruce" <Bruce2@prodigy.net>
To: <cebik@utkux.utcc.utk.edu>
Cc: <qrp-1@lehigh.edu>
Subject: [37980] Re: "pruning" temporary antennae
Message-ID: <00cd01be853c\$e589d520\$2d809cd1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim,
Thought this simple idea might help you.
A mathematical analysis of a simple half wave dipole, center fed will show that 87% of the antenna current is contained in the middle 67 percent of the wire.
As you can see from this--what happens at the ends of the wire have little or no effect on the effectiveness on the radiation of the antenna itself.
Hope this helps you.

Bruce WB4WZL
-----Original Message-----
From: L. B. Cebik <cebik@utkux.utcc.utk.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Monday, April 12, 1999 3:40 AM
Subject: Re: "pruning" temporary antennae

>Jim,
>
>The ends are acting like no more than plain wire at the far end of the
>antenna (dipoles, Vees)--at most like a slightly fatter wire. The
>required inductive reactance at the end of a 1/2 wl wire to change its

>length like a load is so high that no amount of twisting will make a
>significant change in the electrical length. (For the same reason, if you
>take a center loading coil, break it in half and begin to move it out
>along the wire as mid-element loading coils, the required inductance and
>inductive reactance for resonance get steadily larger the farther out you
>go.) Even considering the length of wire folded back, the loading effect
>is still negligible. So taking the extra wire and folding/twisting back
>is perfectly satisfactory electrically--assuming that all mechanical
>requirements for the wire support have been met.

>

>I have done some extensive modeling of this situation, and those numbers
>coincide with practical experience.

>

>-73-

>

>LB, W4RNL

>

>

>

Date: Mon, 12 Apr 1999 19:41:08 -0400
From: "George Heron" <n2apb@erols.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <dave_epps@juno.com>
Subject: [37981] Re: Ten-Tec PC Rcvr
Message-ID: <00b301be853e\$4642c4c0\$b220accf@herong>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A project/article is in progress (shhhhh... :-)

73, George Heron, N2APB
n2apb@amsat.org sometimes in Baltimore, MD

>I wish I knew enough to interface it with an outboard qrp transmitter.

Date: Mon, 12 Apr 1999 19:52:50 -0400
From: "BC" <bcrow@powerlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [37982] Re: Off topic: unassembled Heathkit FS
Message-ID: <000601be853f\$93ed7840\$2cc59ad0@bcrow.powerlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For all you Heathkit types, AE1Q just told me he has an unassembled Heath
phone patch for sale, "new, in the box," for \$25. Call him at 207/293-2935.

72/73 de Bill, K1NIT

Date: Mon, 12 Apr 1999 17:03:18 -0700
From: Mighty Mik <mitymik@hooked.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [37983] here's a stupid idea...
Message-ID: <371289F7.1C057E46@hooked.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-
creator="4D4F5353"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

why not offer solder on 1/4 pound spools??? I already have 2 partials of
63/37 .031 which will last another 10 years or so...and that 1 pound
spool of silver solder is \$20. They do offer 'pocket packs' of some
solder in some sizes, but i think that 1/4 spools would be the ticket
for me.

Date: Mon, 12 Apr 1999 17:05:59 -0700
From: Bob Hightower <ki7mn@extremezone.com>
To: jbcumming@wwdc.com
Cc: qrp-1@lehigh.edu
Subject: [37984] Re: Contest Scoring - A suggestion
Message-ID: <199904130002.RAA26644@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

At 06:03 PM 4/12/99 -0400, you wrote:=20

>
> I would humbly suggest that paid up members of the sponsoring club
> should get a "multiplier".=A0 For example, under existing rules, if I am
> NOT a QRP ARCI member, and I work YOU, a member, then I get 5 points and
> YOU get TWO points.=A0 Is this "fair"?=A0 Does this encourage you to=
retain
> your membership?????=A0 Does it encourage me to take out membership?
> If "paid up" members were allowed to use a 2X or 5X multiplier for ALL
> contacts that they make in a club-sponsored contest, I think it would
> actually encourage membership growth.=A0=20
>
> Just a thought...which I've had many times, but will gripe about only
> once=A0 ;^)=20

Good thought, John. I have had this 'complaint' for some time. The present
scoring system, in use by many contest managers, does not promote membership=

.

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Mon, 12 Apr 1999 17:03:08 -0600
From: Alan Dawkins <alk0frp@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [37985] K0FRP's formula to beat Bob N4BP
Message-ID: <37127BAC.257D9E5F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Lets see Bob had 402's in 23.5 hours , thats 17.1 q's per hour

I had 312 's in 14 hours thats 22.3 q's per hour.

Give my wife \$35 refund for the carpet cleaner and clean the carpets
next weekend.

Go without a couple of needed hours of sleep.

Tell my daughter I'll come the next Weekend soccer game.

Work the full 24 hours of the contest.

Lets see thats 22.3 per hour is 534 q's less midnight to 4 am rate change!!! Most qrpers go to bed. Times .9 because Florida is closer to Europe (more DX). Thats about 420's.

GEE I could have beaten Bob.

Guess I will keep trying.

We all will keep trying.

GREAT SCORE BOB. That what competition is all about, we keep trying.

Watch out I HAVE ANTENNA PLANS THIS SUMMER> BIGGER AND BETTER.

My monobanders have been up for 15 years and they didn't blow down so its time to make-em bigger and higher.

NOUR had a GREAT SCORE 1.3 million from my old home state of Minnesota

And Ron KU7Y Mini Mini power 250mw and a great score 1.1 million.

73's A Fun Contest.

AL K0FRP

Date: Mon, 12 Apr 1999 17:08:19 -0700
From: Wayne Burdick <n6kr@elecraft.com>
To: qrp-l@lehigh.edu
Cc: elecraft@qth.net
Subject: [37986] 13.8V-14.1V will work for charging the K2 internal battery
Message-ID: <v03102800b3383b0a0838@[206.169.229.233]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

[Sorry for the bandwidth: I tried to post this to the elecraft reflector and it turns out qth.net is down.]

Regarding the K2 internal battery: A 14.0V power supply is optimal for charging the K2's internal battery (due to a series diode drop), but anything in the 13.8-14.1V range will work. The difference in total battery lifetime should be completely negligible.

73,
Wayne
N6KR

Date: Mon, 12 Apr 1999 19:08:55 -0500

From: "Michael A. Newell" <wb4huc@texas.net>
To: vferme@sprint.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [37987] Re: PatComm PC-9000 XCVR
Message-ID: <37128B17.601221DA@texas.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The PatComm URL is:

<http://www.qth.com/patcommradio/patmain.html>

73,

Mike -- WB4HUC
Austin, TX
QRP-L 1668

Date: Mon, 12 Apr 1999 18:19:20 -0700
From: Zeek Zilch <zeekzilch@chisp.net>
To: qrp-1@lehigh.edu
Subject: [37988] Ham Radio Tattoos!
Message-ID: <37129B98.A0B324FB@chisp.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My web page features some REAL Ham Radio Tattoos at:

<http://www.qsl.net/wb0jnr/radiotattoos.html>

WB0JNR

Date: Mon, 12 Apr 1999 18:12:03 -0500
From: Earl Murphy <earlmurf@telusplanet.net>
To: qrp-1@lehigh.edu
Subject: [37989] [Fwd: SPRING BOUQUET---FLOWER STATION SCHEDULE (APRIL 11th -

APRIL 18th)]

Message-ID: <37127DC3.3AD4@telusplanet.net>

MIME-Version: 1.0

Content-Type: message/rfc822

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

Message-ID: <37127933.1993@telusplanet.net>

Date: Mon, 12 Apr 1999 17:52:35 -0500

From: Earl Murphy <earlmurf@telusplanet.net>

Reply-To: earlmurf@telusplanet.net

X-Mailer: Mozilla 3.01C-KIT (Win95; U)

MIME-Version: 1.0

To: qrp-canada@lists.gpfn.sk.ca

CC: qrp-canada@lists.gpfn.sk.ca

Subject: SPRING BOUQUET---FLOWER STATION SCHEDULE (APRIL 11th - APRIL 18th)

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi Gang:

Things have picked up, and many Official Provincial Flowers were given away last week. NICE JOB! in managing the SPRING pickings, and GREAT WORK you Flower Stations for the time spent.

SCHEDULE (April 11th to April 18th)

April 13 ...VE3ELA(KEN)...ON...40M(7.045+-)...CW...01:00Z-03:00Z

April 13 ...CG3JFF(JEFF)...ON...40M(7.114+-)...CW...22:00Z-24:00Z

April 16 ...VE6YC(PETER)..AB...40M(7.065+-)...SSB...03:00Z-05:00Z

April 17 ...VE6YC(PETER)..AB...10M(28.310) ...SSB...19:00Z-21:00Z

April 18 ...VE3HYK(ROSS)..ON...20M(14.060) ...CW...14:00Z-16:00Z

April 18 ...VE6EY(DON)or..AB...20M(14.060) ...CW...19:00Z-21:00Z
VE6DN(DON)

Looks like "TRILLIUM and WILD ROSE" week...Good Luck!!

Regards and 72....Earl(VE6EWM)

Date: Mon, 12 Apr 1999 18:17:59 -0700

From: Zeek Zilch <zeekzilch@chisp.net>

To: qrp-l@lehigh.edu

Subject: [37990] OHR Lucky!

Message-ID: <37129B47.37D18144@chisp.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It was with great luck and pleasure that I was able to witness the large truck pull-up to Milestone Technologies (Morse Express) this weekend with their latest acquisition: Oak Hills Research! There were a lot of great kits being transferred to OHR's new home here in Aurora, Colorado. And NO, I have no financial interest in Milestone, OHR, or anyone else - I just love the kits and am very happy they're in my hometown now!!

Roger J. Wendell
WBOJNR
Aurora, Colorado

Date: 12 Apr 99 20:26:43 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: mitymik@hooked.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [37991] Re: [here's (another) stupid idea...]
Message-ID: <19990413002643.6754.qmail@nw176.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Mighty Mik <mitymik@hooked.net> wrote:
why not offer solder on 1/4 pound spools??? I already have 2 partials of 63/37 .031 which will last another 10 years or so...and that 1 pound spool of silver solder is \$20. They do offer 'pocket packs' of some solder in some sizes, but i think that 1/4 spools would be the ticket for me.

Hi M.M.

Heres another stupid idea! :o) Why don't you just use the solder that you have in your possession. Theres nothing wrong with it if it is of good quality. Theres nothing magic about solder. If there is a rosin core in it and you use it properly, it will suffice nicely.

I have cleaned boards of flux occasionally using alcohol and an old toothbrush. I mean clean them ,not just "spread" the flux around in a very

thin pattern. Then again, many times i don't. Depends on my mood at a given moment, i suppose. Been doing it for 34 years. For the Navy, for the Arizona Highway Patrol, Motorola Service Shops, at one point- my own shop. Doesn't matter, high humidity, low humidity, whatever. No performance increase or decrease-either way. Sometimes we "creatures" worry ourselves over very insignificant and minute details! This is a non issue! 73 Roy Lincoln WA4DOU

Get free e-mail and a permanent address at <http://www.netaddress.com/?N=3D=1>

Date: Mon, 12 Apr 1999 23:30:28 +0000
From: "Walter D. Amos" <waltk8cv@surfree.com>
To: Qrp-l Reflector <qrp-l@lehigh.edu>
Subject: [37992] My ohr-400 sold
Message-ID: <37128214.9ED13250@surfree.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to all that inquired but I have sold it!

--

Walt K8CV Royal Oak, Michigan, qrp-l # 935, Zombie # 188 !

"We're just a small sub-group of an eclectic corner of a dying hobby!"

Date: Mon, 12 Apr 1999 17:27:57 -0700
From: Jim Lowman <jmlowman@ix.netcom.com>
To: mitymik@hooked.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [37993] Re: here's a stupid idea...
Message-ID: <37128F8D.9B0D8286@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Mighty Mik wrote:

>

> why not offer solder on 1/4 pound spools??? I already have 2 partials of
> 63/37 .031 which will last another 10 years or so...and that 1 pound
> spool of silver solder is \$20. They do offer 'pocket packs' of some
> solder in some sizes, but i think that 1/4 spools would be the ticket
> for me.

Not a stupid idea at all. A one-pound roll of solder will last an avid
kitbuilder or homebrewer seemingly a lifetime. I must have 6 or 7
near-full spools of the 63/37 solder from my days as a radar technician,
when that stuff was a new item. Those of us who can remember the days
of assembling Heathkits recall that a small quantity of solder was
always supplied with each kit, which was always more than necessary for
the assembly. Oh, and I lost count of all the nut starters that were
supplied with Heathkits.

72 de Jim - AD6CW

Date: Mon, 12 Apr 1999 20:33:10 -0400
From: "Stephen Gibson" <SWGibson@worldnet.att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [37994] Results of spring sale
Message-ID: <005d01be8545\$5790d620\$b8744e0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to all who responded to the sale. Everything went but the 2M gear.
Does this tell us something?
Thanks for the bandwidth.

Steve, WB4NBI

Date: Mon, 12 Apr 1999 20:57:05 EDT
From: B11john@aol.com
To: qrp-1@lehigh.edu
Subject: [37995] I need to change e-mail
Message-ID: <df3e6dc2.2443f061@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone have the instructions to unsubscribe/subscribe so I can change my services?

Thanks,

Bill
K9YEQ

Date: Mon, 12 Apr 1999 18:20:51 -0700 (PDT)
From: Bradley Mitchell <wb8ygg@yahoo.com>
To: ki6ds@dpol.k12.ca.us, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [37996] Re: 3rd World NC20 kits
Message-ID: <19990413012051.23072.rocketmail@web601.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I must admit, when Doug Hendricks first approached us about this radio idea I thought he was even more nuts than everyone says he is (that's a joke)..

As time goes on and the distribution of these kits to the 3rd world is upon us, I personally am starting to understand Doug's spirited motivation.

To avoid looking like a blubbering idiot, I will end it there, but do me one favor, next time you turn on the news and peer into those foreign worlds from your easy chair, think about Doug and Jim enabling a few folks to be able to have the fun we have.

Very Cool!

73
Brad WB8YGG

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 12 Apr 1999 20:33:28 -0500 (CDT)

From: Jim Glover <psykey@okcforum.org>
To: qrp-l@lehigh.edu
Subject: [37997] Sick Pixie :(
Message-ID: <199904130133.UAA00947@okcforum.org>
Content-Type: text

Well, my first project after getting home and putting up the groceries this evening, was to put together the little output power measuring circuit, to see how much power my Pixie2 is putting out.

Folks, the news is not good. Let's see... 80 millivolts across the cap. That's ...uhm... about 64 microwatts. (too QRPpppp for me!)

Troubleshooting suggestions?

--Jim WB5UDE

Date: Mon, 12 Apr 1999 21:38:54 EDT
From: PUNISHER3@aol.com
To: qrp-l@lehigh.edu
Subject: [37998] miles per watt?
Message-ID: <1c0c5f60.2443fa2e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello. Once again, I am here to ask the knowledgeable group a question :)
Ok..here it is ((drumrole)) ... How do I figure out the "miles per watt"? I know I have see many people talk about, but I'm not exactly sure how to figure it out. About 5 minutes ago, I was on 20 meters and called cq with 4 watts. After a few tries, a guy from Antarctica (R1ANF) came back (yipeeeee!). I found an Internet site that lets you enter 2 places, and then it calculates the distance between the 2 points, (as the crow flies). The total was 9,128 miles between me and Antarctica. To find the "Miles Per watt" i thought that all I had to do was dived 9,128 by 4 (because I was using 4 watts), but then something seemed wrong, and I don't think that I am doing this problem right. Could someone kindly correct me as how to figure out the "miles per watt"?

Thanks a BUNCH!!!,
Ben - NW7DX
Redmond, WA

Date: Mon, 12 Apr 1999 18:53:47 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [37999] Re: Spread Spectrum
Message-ID: <3712A3AB.E562F5CD@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Laura Halliday wrote:

>
> The main thing it can do for us as hams is make it easier to
> share bands. By spreading an otherwise-narrow signal over a
> large bandwidth, the energy in a given bandwidth is small,
> making it less likely to interfere with others. Including
> other hams.

My worry is that large-scale use of spread-spectrum will cause a general increase in noise level, which would impact the very signals that I am most interested in receiving -- weak DX and QRP signals. Now, although there are situations in which CW signals are interfered with by other narrow-band signals, it is possible to QSY to avoid them. When my neighbor (1/2 km away) opens up with his KW, I can still work DX 10 or 15 kHz away (I have a good RX). But it seems to me that if he were to distribute his KW over the whole band, I could work locals anyplace, but DX noplacement.

This is all conjecture, of course. Am I off base?

73,
Vic, K2VCO
Fresno CA

Date: Mon, 12 Apr 1999 21:56:05 -0400
From: "Charles D. Feigley" <wa8cul@gte.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38000] I did it !
Message-ID: <3712A435.391167B5@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello all,

After much todo I passed the 5 wpm code test this evening. I have obtained a lot of good information by reading the post on this list. Now all I have to do is save my pennys for a qrp rig. Next month the 13wpm test and then.....
Charlie WA8CUL

Date: Mon, 12 Apr 1999 22:03:36 -0400
From: "Paul Helbert, Wv3j" <phelbert@rica.net>
To: PUNISHER3@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38001] Re: miles per watt?
Message-ID: <3712A5F8.CF4C8D2E@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ben,

You almost had it. Just multiply the result you got by the square root of one and you'll be close enough for the QRP-ARCI award.

Sorry;>)

Paul, Wv3j

Date: Mon, 12 Apr 1999 19:20:14 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <nwq-1@scn.org>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [38002] The NW QRP Club's "NWQ" now on line
Message-ID: <000c01be8554\$2b5b3fa0\$a1added1@bill>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello QRPers -

The March/April edition of the "NWQ" is on line at the web site listed below. I hope you enjoy the latest offering.

Most of you on the NWQ-L and QRP-L have already seen information on our joint NW QRP and BC QRP Club meeting in early March (thanks go to the NorCal QRP Club posting the story and affiliated photos).

Other stories include information on our NW QRP Club Nets, the latest group of NW QRP Club members, and the current information on the "QRP Forever" QRP Forum at the SEAPAC Ham Convention at Seaside, OR.

Enjoy! and 72's - Bill-N7MFB

PS Remember that our next NW QRP Club meeting is THIS Saturday at good ol' Andy's Diner in downtown Seattle. You know the drill...11 AM, and enter Andy's through the back door, etc., etc (hi).

<http://www.willapabay.org/~bill>

ICQ @ 8926298

Date: Mon, 12 Apr 1999 21:28:03 -0500
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: <wa8cul@gte.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [38003] Re: I did it !
Message-ID: <006301be8555\$42eb8c00\$d7330b3f@default>

Way to go Charlie... the hardest thing I ever did was learn 5wpm code.
Press on to 13 wpm but get on the air with 5wpm as fast as you can.
Congratulations Mike n0wdm Minnesota

-----Original Message-----
From: Charles D. Feigley <wa8cul@gte.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, April 12, 1999 9:00 PM
Subject: I did it !

I passed the 5 wpm code test this evening. > Charlie WA8CUL
>

Date: Mon, 12 Apr 1999 22:36:40 -5

From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-1@lehigh.edu
Subject: [38004] Spring QSO Party - The N8ET Story
Message-ID: <199904130235.WAA01357@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

A week or so ago I told myself I was going to take some time off and get on the Spring QSO Party for a reasonable effort. A few days before the test I was starting to waver when N4BP posted a note to QRPL asking if anyone needed another Team Member for the test..... The night before the test I sent Bob a note saying - if you found a team and they need another guy - let me know, I'll get on. He sent me a note back saying no one had contacted him, so we would do it on our own - if the contest manager would accept an e-mail application at that late date.

The new mgr wrote back saying "have at it", so we were hooked.

I operate from a local club station where I have put in MANY huors of tower and antenna work. At 11:30 the day of the test (3.5 hours after the start) I rolled up to the club and went to work. First I had to load the latest copy of TR which is the contest software I use to log. That went fairly well, and then things went down hill from there. A quick review of the manual and the help screens and I remembered enough of TR to get going. I fired up the Club's TR-7 and found it had gone "Real QRP" - zero watts out. I spent some time checking all the settings and connections (club station have a way of becoming "mis-adjusted") and finally decided it was dead.

I hopped into the car, went home, and picked up my TR-7. I did not bring the power supply - after all - what ever goes wrong with 30 amp supplies in QRP tests....

Arriving back at the club I fired up the PC only to see a "hard drive failure" msg on the screen..... some time was spent being sure it really was a hard drive failure..... it apparently was! So - I installed the newer PC the club had put together last year and loaded TR again.

PC is now running, so I fire up my TR-7 and find it also has no output! I reacll the Drake power supply has separate leads for the low current and high current +12V to the xcvr, so I scoot off home to pick up my power supply. Arriving back at the club, I find the PC still works (first thing that has gone right in a couple hours!), plug in my PS and find I STILL have no output. I KNOW there can't be that many

failed pieces of equipment in front of me, so I start pulling things apart. The first thing I do is to disconnect the remote VFO and try again. AND FINALLY I HAVE RF TO THE ANTENNA! Someone had left the SPOT button pushed in! I then recall that when the remote VFO is in the SPOT mode - TX is disabled on the TR-7 - even tho the remote VFO is OFF. I'll never forget that again.... ;>)

Anyway - it is now 2 oclock, so off we go. I put in a couple of so-so hours in the afternoon on 20 and 15 with one qso on 10 when HP1AC agreed to QSY there, and head home for dinner and to be sure the family has not forgotten me. That evening I return and make some QSO's on 40. It was getting pretty noisy.... I went to 80, and could hear some signals in the QRN, and even worked one or two. I called CQ once and could tell there were many stations calling, but wth the noise it was impossible to copy even one of them. The antenna on 80 is up 90 feet or so, and gets out "fairly well". about 11 I finally gave up and decided to get some sleep and hit it in the morning. As I got in the car I looked west, and the entier western horizon was lit up with lightning! There were some clouds that never seemed to get dark. Cloud to ground, cloud to cloud - it was all there. I was one of the best electrical storm shows I have ever seen - and definately the worst I have ever heard! There was always a bolt visible somewhere on the horizon.

I got back on the next day for a few normal hours in the morning, a couple in the afternoon, and finished up the last two hours of the test. The last two had the most activity and I had two hours of over 30 qso's per hour then - and I even made some QSO's on 80!

My final claimed score was 206 QSO's, 874 points, SPC's 79, power mult of 7 (5 W) for a total score of 507,794 in about 11 hours of operating. 20 was the big band (77 qso's, 27 SPC's) with 40 very close behind.

My next QRP test will be with some new kits I have in the works - I will not waste 3 hours again because someone pushed in a button I didn't see... I should have the new kits at Dayton.... Look me up!

Next time I would like to see a Team Competition for dinner at Dayton by the loosing team for the winning team. If Bob and I can pick up another team member or two, and I can get all the right buttons set before the start of the contest - we should be tough to beat! i just hope Bob is up for it - 2M points is tough to replace!

73 - Bill - N8ET

Kanga US

kanga@mail.bright.net

<http://www.bright.net/~kanga/>

419-423-4604

Date: Mon, 12 Apr 1999 19:44:16 -0700
From: Wayne Burdick <n6kr@elecraft.com>
To: qrp-l@lehigh.edu
Subject: [38005] world-wide frequency allocation charts on web?
Message-ID: <v03102808b3385e875ebe@[206.169.227.107]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm looking for an accurate, definitive source of information on Amateur, MARS, military, broadcast, and other frequency allocations world-wide. Hopefully this data exists in some comprehensive form on the web, as a supplement to FCC data, etc. I'm trying to nail down the exact out-of-band transmit ranges for the K2, which will vary by country in some cases.

Thanks in advance for any suggestions you might have.

73,
Wayne
N6KR

Date: Mon, 12 Apr 1999 20:01:04 -0700
From: Rich Wilkerson <richqrp@home.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [38006] subscriptions
Message-ID: <3712B370.C9983C9A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello all,

I was looking at some of the listings about the latest Quarterly and seeing how i did not get one, who do i contact to see if my dues are paid up? Both for the Quarterly and NorCal.

Thanks.....

--

Rich Wilkerson

WD6FDD, Santee, Ca.
72's, 73's

Date: Mon, 12 Apr 1999 22:20:34 -0500
From: Brian Murrey <brian@iquest.net>
To: wa8cul@gte.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38007] Re: I did it !
Message-ID: <3712B802.CAD0FED2@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Charles....WAY TO GO!!

Man let me tell you, once you get the paddle/key in your hand and you feel the raw power of a couple of watts coursing through the walls to your attic dipole...you'll be HOOKED!! I mean H-O-O-K-E-D!!!

72 and most excellent!

"Charles D. Feigley" wrote:

> Hello all,
> After much todo I passed the 5 wpm code test this evening. I have
> obtained a lot of
> good information by reading the post on this list. Now all I have to do
> is save my pennys
> for a qrp rig. Next month the 13wpm test and
> then.....
> Charlie WA8CUL

--

=====

KB9BVN: Norcal 40A - 1.8W - Attic Dipole
FISTS: 5695 NORCAL: 2792 QRP-L: 1540 ARRL
QTH: Central Indiana, GRID: EM69WN

=====

Date: Mon, 12 Apr 1999 23:01:15 -0400

From: "George Heron" <n2apb@erols.com>
To: "NJ-QRP" <njqrp@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [38008] Final Tribute to Atlanticon Prize Donors
Message-ID: <01e501be855d\$52d9a2c0\$b220accf@herong>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

All the reports are in. All the accolades and well-wishes have been stated. And everyone is rested and ready for the next QRP events, contests and projects of the season.

BUT ... the NJ-QRP Club still wishes to give one last and very sincere "Thank You" to the donors of all 62 prizes given away during the Atlanticon 99 QRP Forum last month. Their generosity benefited all those attending the activities that weekend, and shall live on in our memories as the ultimate gestures of QRP goodwill.

Get a load of the variety of very nice prizes, generously donated by clubs, vendors and individuals alike ...

NorCal 20 transceiver kit, from NorCal QRP Club
SW-40+, from Small Wonder Labs
Vibroplex bug, from Jim Fitton, W1FMR and QRP-NE Club
Screwdriver antenna, from Chris Cartwright, N3XRV
44-Magnum transceiver kit, from HB Electronics
EMTECH NW80 transceiver kit, from QRP ARCI
GM-30 transceiver kit, from Chuck Adams, K5FO
Winter 98/99 QRPp (Elmer 101 book), from Paul Harden, NA5N
Bag of assorted diecast project boxes, from Mike, WA8MCQ
NorCal mini log book, from Mike, WA8MCQ
G3RJV Six-Pack PC board, from Mike, WA8MCQ
AM VHF radio monitor kit, from Danny Gingell, K3TKS
"History of QRP in the U.S.", from Jon, N3ZIL of the Eastern PA QRP Club.
"The Joy of QRP", from the Eastern PA QRP Club.
(5) Ladder Grabbers, from EMTECH
"HF Antennas for All Locations" by L.A. Moxon, G6XN, from the Eastern PA QRP Club.
"QRP Power" from Bob Berlyn, N1PWU of HB Electronics
"W1FB's QRP Notebook", from the Eastern PA QRP Club.
"W1FB's Design Notebook", from the Eastern PA QRP Club.
(5) 'TOIDS' prototyping boards, from Rex Harper, W1REX
Whiterook's Model MK-33 Pocket Mini-Paddle, from the Eastern PA QRP Club.
"Solid State Design for the Radio Amateur," from Bob Berlyn, N1PWU of HB Electronics
'TOIDS' prototyping boards (comes complete with a tin of mints!) from Rex

Harper, W1REX

(2) "KE6RIE Rainbow Enclosures", from the NJ-QRP Club
"W1FB's QRP Notebook," from Bob Berlyn, N1PWU of HB Electronics
Super TiCK kit from Embedded Research
TiCK-EMB kit from Embedded Research
Gusher 20-20 portable QRP antenna, from N2CX
A "little red key" from the American Radio QRP Key Mfg Co.
"Joy ..." and "History of QRP" books, from the Maryland Milliwatters Club
(2) QRPer's Data Books, from Paul Harden
(3) Memberships to ARCI (QQ subscription), from QRP ARCI
(5) Bundles of QRP Quarterly back issues, from QRP ARCI
"W1FB's Design Notebook," from Bob Berlyn, N1PWU of HB Electronics
(5) K3CHP's DX QSL GUIDES, from Joe Mikuckis, K3CHP
(2) Bulldog Keyer kits from K9LU
"The Art and Science of QRP," book from Rich Arland, K7SZ
ZM-2 ATU, by EMTECH
KnightSMiTe kit for 80 meters from Bob Kellogg, AE4IC and Rich Arland, K7SZ
Fireball 40 transmitter kit, from the NJ-QRP Club
40-9er kit, from Dave Maliniak, N2SMH
"QEX Subscription", from ARRL by Mark Wilson, K1RO
ARRL Antenna Book CD, from ARRL by Mark Wilson, K1RO
ARRL Handbook CD, from ARRL by Mark Wilson, K1RO
QST VIEW CD-ROM from Bob Berlyn, W1PWU of HB Electronics

Thank you, one and all!

72/73,

--George Heron, N2APB
n2apb@amsat.org
for the NJ-QRP Club at <http://www.njqrp.org>

Date: Mon, 12 Apr 1999 20:32:24 PDT
From: "Justin McAllister" <kd5ako@hotmail.com>
To: PUNISHER3@aol.com
Cc: qrp-1@Lehigh.edu
Subject: [38009] Re: miles per watt?
Message-ID: <19990413033225.92094.qmail@hotmail.com>
Mime-Version: 1.0
Content-type: text/plain

To find the
>"Miles Per watt" i thought that all I had to do was dived 9,128 by 4
(because
>I was using 4 watts), but then something seemed wrong, and I don't
think that
>I am doing this problem right.

<Clip>

Yup, that's the right way, when you do $9128/4$ you should get 2282
miles/(per) watt.

Thats the right number, because for every one watt you are using, you
are getting 2282 miles, and if you multiply that(2282) by 4, you are
back to the origional 9128.

<Clip>

>Thanks a BUNCH!!!,
>Ben - NW7DX
>Redmond, WA

No problem,

Justin McAllister, KD5AK0
18 Years Old; Advanced class
Weatherford HS ARC President
NorCal, ARRL, TCARC-NTX

Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Mon, 12 Apr 1999 23:38:02 -0400
From: "BC" <bcrow@powerlink.net>
To: <bcrow@powerlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38010] Re: Off topic: unassembled Heathkit FS
Message-ID: <003101be855f\$09a44360\$54c59ad0@bcrow.powerlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Don called to say that the kit went in about five minutes. Thanks to all
who called.

72/73 de Bill, K1NIT

-----Original Message-----

From: BC <bcrow@powerlink.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Monday, April 12, 1999 7:59 PM

Subject: Re: Off topic: unassembled Heathkit FS

>

>For all you Heathkit types, AE1Q just told me he has an unassembled Heath
>phone patch for sale, "new, in the box," for \$25. Call him at
207/293-2935.

>

>72/73 de Bill, K1NIT

Date: Mon, 12 Apr 1999 23:42:18 EDT

From: PUNISHER3@aol.com

To: qrp-l@lehigh.edu

Subject: [38011] Miles per Watt ==thanks==

Message-ID: <ac84034f.2444171a@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi again. I'd like to thank you guys for helping me with the miles per watt.
I guess was doing everything pretty much correct. All i have to do is find
the overall distance, then divide it by how much power i was using.

Thanks,

Ben

Date: Mon, 12 Apr 1999 22:16:51 -0600

From: Niels Jensen Kristjansson <nkristja@cadvision.com>

To: qrp-l@Lehigh.EDU

Subject: [38012] 10.120MHz number station.

Message-ID: <1.5.4.16.19990412215804.1a87149a@cadvision.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi gang,

I am hearing a spanish number station here in Calgary, Alberta on 10.120MHz, it is S-9 with a bit of QSB. Just curious to know where else and how strong it is. No I'm not trying to get a fix on it (don't want black helicopters following me HI HI), just curious.

73 de Niels
VE6NJK/TF3NJ

Date: Tue, 13 Apr 1999 00:22:54 EDT
From: PUNISHER3@aol.com
To: nkristja@cadvision.com, qrp-1@lehigh.edu
Subject: [38013] Re: 10.120MHz number station.
Message-ID: <c9bca030.2444209e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Wow...can hear it in Washington really good 59+. Some kind of code for something. hmmm

NW7DX Redmond, Wa

In a message dated 99-04-13 00:19:38 EDT, nkristja@cadvision.com writes:

<< Hi gang,

I am hearing a spanish number station here in Calgary, Alberta on 10.120MHz, it is S-9 with a bit of QSB. Just curious to know where else and how strong it is. No I'm not trying to get a fix on it (don't want black helicopters following me HI HI), just curious.

73 de Niels
VE6NJK/TF3NJ

>>

Date: Mon, 12 Apr 1999 21:27:58 -0700
From: "Rich Wilkerson" <richqrp@home.com>
To: <nkristja@cadvision.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38014] Re: 10.120MHz number station.
Message-ID: <000a01be8566\$02b928c0\$f5460418@cx55215-a.elcjn1.sdca.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

S-9 here in southern California, Santee, ca.

-----Original Message-----

From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Monday, April 12, 1999 9:18 PM
Subject: 10.120MHz number station.

>
>Hi gang,
>
>I am hearing a spanish number station here in Calgary, Alberta on
10.120MHz,
>it is S-9 with a bit of QSB. Just curious to know where else and how
strong
>it is. No I'm not trying to get a fix on it (don't want black helicopters
>following me HI HI), just curious.
>
>73 de Niels
>VE6NJK/TF3NJ
>
>
>

Date: Mon, 12 Apr 99 22:48:34 MST
From: R Hayden <rhayden@dzn.com>
To: qrp-1@Lehigh.EDU
Subject: [38015] 10.120MHz number station.
Message-ID: <199904130441.AAA29616@nss4.cc.Lehigh.EDU>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Wow again,
It's hitting my little longwire under the roof at 58+ here in El Paso, Tx.
A spanish female voice just calling out numbers.
Rich

Date: Mon, 12 Apr 1999 21:48:29 -0700
From: "Denis Englander" <ko6gf@slip.net>
To: <PUNISHER3@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [38016] Re: 10.120MHz number station.
Message-ID: <002b01be8568\$e0dfaa00\$c3d4abcf@net.slip.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

4X7 in San Francisco, California 04:38UTC (9:38PM Pacific Time) on
USB..
5X9 in San Francisco, California 04:40UTC (9:40PM Pacific Time) on
AM...
Also on 10.120.00Mhz

Note the entry beeps after each set... some sort of marking tones ...
end
of each word?

Good hunting... de K06GF Denis in SF

Sent: Monday, April 12, 1999 9:22 PM
Subject: Re: 10.120MHz number station.

> Wow...can hear it in Washington really good 59+. Some kind of code
for
> something. hmmm
>
> NW7DX Redmond, Wa
>
>
> In a message dated 99-04-13 00:19:38 EDT, nkristja@cadvision.com
writes:
>

> << Hi gang,
>
> I am hearing a spanish number station here in Calgary, Alberta on
10.120MHz,
> it is S-9 with a bit of QSB. Just curious to know where else and
how strong
> it is. No I'm not trying to get a fix on it (don't want black
helicopters
> following me HI HI), just curious.
>
> 73 de Niels
> VE6NJK/TF3NJ
>
>
>
>
> >>
>
>

Date: Tue, 13 Apr 1999 01:22:25 -0400 (EDT)
From: malman@world.std.com (Joel Malman)
To: vole@primenet.com
Cc: k1qm@world.std.com, qrp-1@Lehigh.EDU
Subject: [38017] ARCI Logs
Message-ID: <199904130522.AA12119@world.std.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Joe,

I heard you now have the thankless job of log collector / reader /
results administrator / etc for ARCI Contests Best of luck.

I'll be sending off my logs/dup sheets/summary tomorrow. It's only
240,000 points ... no where near N4PB or KU7Y (worked Ron on 20, 15
and 10 meters with his 250 MW signal). Anyway, I did have lots
of fun in the 'high-band' entry class.

Cheers, 72 ...

--

/joel K1QM (Ex-wa1qvm) Concord, Massachusetts

QRP-L 337, QRP-ARCI 9305, MI-QRP 1641, NorCal #1884

Date: Mon, 12 Apr 1999 09:54:31 -0700
From: "Arthur G. Silvers" <ags@ieee.org>
To: Wayne Burdick <svecbrdk@well.com>
Cc: qrp-l <qrp-l@Lehigh.EDU>
Subject: [38018] SST 20 Tuning Range - More!
Message-ID: <37122547.C7C0F640@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fellow QRPers,

I know we are all into NC20s and other projects, but I just wanted to relate my latest improvements on the tuning range of my SST 20 with appropriate credit to those who have posted there results to QRP-L.

In order to improve the tuning range of the rig, the first thing I did was to install both varactor diodes. This resulted in rather narrow ranges for both diodes;

MVAM108	about 9 kHz
MV209	about 6 kHz.

I could have stopped there because I had the QRP calling frequencies nicely covered. Spurred on by the success of other SST builders, I installed the second parallel crystal and lowered RFC3 to 4.7 uH (a standard value). This resulted as follows;

MVAM108	14.024 - 14.046
MV209	14.049 - 14.060

Hmm! Interesting improvement, but now the QRP calling freq is only marginally covered and there was still an annoying gap in coverage between the two diodes. Then Wayne Burdick suggested that I reduce the value of R5, thus providing a wider voltage swing accross the varactors, to 9K from 100K. I though that a bit radical so I first tried reducing the resistance to half (50K) with the following results;

MVAM108	14.022 - 14.048
MV209	14.048 - 14.061

Now that is promising results and motivated me to reduce R5 as Wayne

recommended. So with a shunt 10K accross the original 100K, the net resistance is of R5 is 9K which resulted as follows;

MVAM108	14.022 - 14.050
MV209	14.041 - 14.0625.

Bingo! As far as transmit stability is concerned, I received a 559 from Utah during the QSO party with a vertical dipole in the rafters of my garage before the XYL reminded me that we had tickets to the Berkely Rep and needed to get ready.

Many thanks Wayne! And many thanks to those QRP-Lers who posted so many helpful notes. Now about this AGC section of the NC20.....

72 Arth W6AGS

Date: Tue, 13 Apr 1999 01:59:53 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Subject: [38019] Bencher's Mercury prototype spotted
Message-ID: <008601be8572\$d95d02f0\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

That's very interesting to learn Paul... it looks like they may actually make it. I really hope so. Thanks for the tip.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Goemans
Sent: Saturday, April 10, 1999 11:05 PM
To: Low Power Amateur Radio Discussion
Subject: I fondled a Mercury today!

Hi again,

Forgot to mention, at AES Superfest in Milwaukee today, Bencher had a small table there. On the table was a "pre-production" Mercury Paddle! It looked and felt nice! It was not however connected to a keyer/oscillator :-(Start saving those pennies, only \$495 !!

72, Paul

Paul Goemans WA9PWP
1508 Sundt Lane Stoughton, Wi 53589

72 / 73 Ed N4XY

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

Time flies like an arrow. Fruit flies like a banana.
... Groucho Marx

Date: Tue, 13 Apr 1999 02:02:05 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Alan Dawkins <alk0frp@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38020] Re: K0FRP's formula to beat Bob N4BP
Message-ID: <Pine.3.89.9904130124.C6363-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 12 Apr 1999, Alan Dawkins wrote:

>
> GEE I could have beaten Bob.
>
> Watch out I HAVE ANTENNA PLANS THIS SUMMER> BIGGER AND BETTER.
> My monobanders have been up for 15 years and they didn't blow down so
> its time to make-em bigger and higher.
Ummm, me smell more pizza! Me like pizza! October pizza good!
Must commence serious planning to replace 35 ft high 40M dipole with 75
foot high 2 el Yagi!

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Mon, 12 Apr 1999 23:42:22 -0700
From: "Radman" <radman@best.com>
To: "Wayne Burdick" <n6kr@elecraft.com>, <qrp-1@lehigh.edu>
Cc: <elecraft@qth.net>
Subject: [38021] Re: [Elecraft] 13.8V-14.1V will work for charging the K2 internal battery
Message-ID: <199904130640.XAA10018@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Wayne & the gang,

That's good news re: the 13.8-14.1 VDC range. There seems to be some variability in the RS Switching PSs, and it's certainly **not** worth messing around with the RS board (and voiding the warranty) if it's not necessary -- just to "pump up" the no-load voltage. Thus far I've been really happy with the RS switcher & K2 Internal Battery combo. More tests to do, but looking good....

73,

Conrad
NN6CW

Regarding the K2 internal battery: A 14.0V power supply is optimal for charging the K2's internal battery (due to a series diode drop), but anything in the 13.8-14.1V range will work. The difference in total battery lifetime should be completely negligible.

73,
Wayne
N6KR

Submissions elecraft@qth.net

Date: Tue, 13 Apr 1999 00:19:41 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: malman@world.std.com (Joel Malman)
Cc: qrp-1@Lehigh.EDU
Subject: [38022] Re: ARCI Logs
Message-ID: <199904130719.AAA16952@usr07.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy Joel (and Folks),

Joel (K1QM) wrote:

>

> I heard you now have the thankless job of log collector / reader /
> results administrator / etc for ARCI Contests Best of luck.

The millstone of paperwork has been passed on. *8-) I owe
a heavy debt to Cam for all his good work and dedication
over the years, but I'll save my full comments for a later
date/article when I have time to do it right. (Thanks Cam!!!)

Cam and I plan on swapping a lot of email/snailmail over
the months ahead while things settle out, so don't worry
about your logs getting lost in the shuffle. Will have
"logs received" updates on the ARCI website so you all can
verify you're in the spreadsheet.

> I'll be sending off my logs/dup sheets/summary tomorrow. It's only
> 240,000 points ... no where near N4PB or KU7Y (worked Ron on 20, 15
> and 10 meters with his 250 MW signal). Anyway, I did have lots
> of fun in the 'high-band' entry class.

Couldn't have done worse than me! Was fighting a deadline
all weekend, finally locked down the project dark and early
Sunday morning, only to end up stuck on the !@&^#!^%@ phone
for most of Sunday wrapping up loose ends. Missed a FB QSO
with KJ5TF when a digi-cricket stomped us too. :-(But made
some nice QSOs, had a nice mid-contest ragchew with Glenn
(AE0Q), and even worked Ron twice (sorry Bob! ;-)).

Gotta love QRP contests! *8-) Hope the rest of you had fun too! Sorry I couldn't work more of ya. Way behind on email until I can get the rest of this project wrapped up in time for a test release. Apologies in advance for slow replies.

I'm ready for retirement. Bring it on. Please! *8-)

Cheers de AB7TT,

-Joe, vole@primenet.com, ARCI Contest Critter-At-Large

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Tue, 13 Apr 1999 00:25:08 -0700
From: "John Moriarity" <k6qq@hdo.net>
To: <rakefet@rakefet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38023] Re: Spread Spectrum
Message-ID: <052001be857e\$c35a4880\$10424cd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, April 13, 1999 1:00 AM
Subject: Re: Spread Spectrum
>My worry is that large-scale use of spread-spectrum will
cause a general
>increase in noise level, which would impact the very
signals that I am most
>interested in receiving -- weak DX and QRP signals. Now,
although there are
>situations in which CW signals are interfered with by other
narrow-band signals,
>it is possible to QSY to avoid them. When my neighbor (1/2
km away) opens up
>with his KW, I can still work DX 10 or 15 kHz away (I have
a good RX). But it
>seems to me that if he were to distribute his KW over the
whole band, I could

>work locals anyplace, but DX noplacel.
>
>This is all conjecture, of course. Am I off base?
>

You are absolutely right, Vic. One or two SS signals on a band aren't a problem, but a lot of them are! Besides, can you imagine tuning a band by incrementing Pseudonoise codes and waiting to see if you acquire a signal? The more stations on the band, the more codes needed, and the longer they will have to be. That means longer to acquire lock. Sounds like operating 2 meters with a keypad to me.

72,

John, K6QQ (who has designed SS systems for a living)

Date: Tue, 13 Apr 1999 00:30:55 -0700
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [38024] Sumner praises Chief Zombie...
Message-ID: <199904130728.AAA19427@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Check out the May issue of QST.

Chief Zombie, Doug Hendricks -- KI6DS, draws well-deserved praise in Dave Sumner's editorial, "Just Do It." Mr. Sumner explains that Doug spent his Christmas bagging 200,000 components for the sold-out NorCal 20 project.

Way to go, Doug !! We thank you!

Conrad -- NN6CW

Date: Tue, 13 Apr 1999 01:07:30 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [38025] Ham shack cleaning
Message-ID: <19990413080730.8880.rocketmail@web703.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I have some items for sale. Actually my buddy is selling these items and dosnt have internet/email.

MFJ 2 position antenna switch \$5.
J. Com personal phone patch \$100.
Ramsey 2M 40w amp, needs transistor \$30.
Kantronics 9612 128k TNC w/Hostmaster software \$130.
Xytronic Soldering Iron, temp control, meter,
used very little \$40.
Turner Super Sidekick desk mic. \$10.
Ramsey universal remote control, factory wired and tested -New \$100.

Also, I have a TS-700SP 2M all mode XCVR - \$350.

Thanks, Jim - kj5tf@yahoo.com

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 13 Apr 1999 04:25:24 EDT
From: DYARNES@aol.com
To: mdmisner@ix.netcom.com, qrp-l@lehigh.edu
Subject: [38026] Re: [Elecraft] RS Switch Mode Travel Supply
Message-ID: <9dff9f4f.24445974@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 4/13/99 3:55:46 AM !!!First Boot!!!,
mdmisner@ix.netcom.com writes:

<< I notice that the RS 22-503 supply does not state that it meets FCC

Class B specs as other switchers for communications equipment advertise,
such as the Astron models. >>

My owner's manual says (on page 21) that the device (RS 22-503) complies with
"part 15". Don't know if that is the same as "class B".

Dave W7AQK

Date: Tue, 13 Apr 1999 04:21:48 -0600
From: AE0Q V31RY <v31ry@ix.netcom.com>
To: QRP-L@LEHIGH.EDU
Subject: [38027] ARCI Spring Score
Message-ID: <3.0.5.32.19990413042148.00853360@ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Callsign Used : AE0Q Operator : AE0Q

Category : High-Band (10,15,20m), Single-Op

Output Power : 5 Watts

Exchange : RST C0 9277

=20

BAND	Raw QSOs	Valid QSOs	Points	Mults	Countries	=20
20CW	239	230	889	47	6=20	
15CW	122	117	457	28	7=20	
10CW	49	49	183	16	3=20	

Totals	410	396	1529	91	16=20	

Final Score =3D 163603 points X 7(5w) =3D 1,145,221 points.

Hours operated: 21

Station: TS-450S, KT34XA yagi @ 75 ft, TRLog software.

Fair band conditions, lots of good signals..

73 -- Glenn=20

"Remember, any tool can be the right tool!" Red Green

AE=D8Q / V31RY ex: GM5BKC, ZB2WZ, SV=D8WY, WA=D8VPK
v31ry@ix.netcom.com --SOWP 5558-M, ARRL LM, QCWA LM, NCVA--
<http://www.qsl.net/ae0q/>

Date: Tue, 13 Apr 1999 04:35:13 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <wa8cul@gte.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [38028] Re: I did it !
Message-ID: <199904131051.EAA15471@srv.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Congratulations and welcome to the great world of QRP 72 Cal KF7ET

> From: Charles D. Feigley <wa8cul@gte.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: I did it !
> Date: Monday, April 12, 1999 6:56 PM
>
> Hello all,
> After much todo I passed the 5 wpm code test this evening. I have
> obtained a lot of
> good information by reading the post on this list. Now all I have to do
> is save my pennys
> for a qrp rig. Next month the 13wpm test and
> then.....
> Charlie WA8CUL
>

Date: Tue, 13 Apr 1999 04:08:34 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [38029] ARCI QSO Party - mW WAS
Message-ID: <19990413110834.3703.rocketmail@web708.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

The turnout was great this past weekend for the QSO party. My recently destroyed and repaired 10/15M quad beam at 70' was sitting cockeyed up there. The driven element spreaders had bugered up the holes in the boom. It leaned at a funny angle to the reflector, but SWR was fine! Not fully trusting it I setup my Black Widow vertical in the yard outside my shack window. Only two radials and tuned for 15M.

Saturday morning I started out with 20M and worked WV with 50mW, & ND with 90mW. The 20M antenna is a half square 20' off the ground. Next I went to the 15M ground mounted vertical. There was HP1AC and I worked Cam with 45mW. On to CT and Fla both with 45mW.

This was going so well I lowered the power to 25mW and worked CO and NM on 20M.

Comeing up next & slightly with 35mW for OR back on 15m.

Sunday again starting with 20M and 55mW I worked NC, PA, CO, and VA. Back on 15M I heard Bahamas but he never copied me with the Black Widow. So I gave the crooked quad a try and with 200mW I made the QSO. Hummm 200mW is ALLOT of power!

Feeling like I had just spent too much power, I lowered the power to 11mW and worked MD on the 15M crooked quad. Then 10M at 8mW I bagged two OR stns, and a VE7 in BC as well. Back to 15M and 11mW again, I worked the same VE7, plus NC.

Feeling really lucky I lowered the power to 2mW and worked NM, and NH. I ended up sunday afternoon early, but bagged CA and NV with 9mW, & PA with 18mW.

This was pretty good for my mW WAS effort. My standings now are 37 states, and total power used 1.173 watts.

I added afew new states, and lowered the power on several states I had already worked with higher power.

To make all this even MORE FUN, I worked allot of stations with the AR QRP club callsign, NQ5RP. There was no multi for club stns, but it was just good fun.

Great party ARCI! Now I've gained confidence with my ground mounted Black Widow fishing pole vertical, and ready for QRPTTF. 72'z de Jim KJ5TF AR QRP #2

Do You Yahoo!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 13 Apr 1999 05:15:34 -0500
From: pierce@rice.edu (George F. Pierce)
To: qrp-1@lehigh.edu
Subject: [38030] Need a ride
Message-ID: <v01510100b338c72fdabb@[128.42.176.168]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Can't make FIDM as I will arrive Columbus around 4:10 PM Friday night. I'm looking for a ride from the Columbus air port to Days Inn South. I will meet friends there who have a car. If you are arriving @ Columbus around that time or picking someone up and can help me I will gladly contribute whatever you deem fair.

Tnx @ 72

George F. Pierce III
WA5ABS M0B0D
Email: pierce@rice.edu

Date: Tue, 13 Apr 1999 07:41:27 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38031] RE: Half squares and Bobtails on 2 meters
Message-ID: <Pine.GS0.4.10.9904130720130.9568-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Arnie,

The traditional way of feeding a bobtail or half square has been a culprit in our understanding of them. Let me explain.

The antennas themselves have a history that is the reverse of their theory. The HS is more fundamental, consisting of 2 1/4 wl verticals in phase (actually, both voltage and current 180 degrees out of phase with each other, which makes them in phase--out of phase requires inphase voltage and current out of phase or the reverse--or any vector arrangement that results in the equivalent.) The two vertical radiation patterns add

broadside to the wire, while the horizontal $1/2 \lambda$ wire between verticals is mostly self-cancelling.

The BC is two HS, with a common vertical center wire. Again, pattern addition is broadside and vertically polarized, with horizontal components largely canceling (but imperfectly).

Neither antenna requires a ground plane of any sort. They are complete antennas. They model precisely anywhere from free space to close to the ground. In this regard, they are closely related to side-fed deltas and side-fed rectangles.

Now the problem. First, if we feed the HS or BC at a high current point--such as the corner of and HS or the BC junction of the center wire and the horizontal, then the antennas are independent of ground conditions beneath the antenna and only dependent on reflection conditions in the Fresnel zone some λ away. Second, if we use the older voltage feed method of employing a parallel tuned circuit at the tip of a vertical (with a tap or link for 50-Ohm matching, we have an added requirement: we need an excellent RF ground for the termination of the parallel circuit bottom. Otherwise, we end up circulating much of our power in the circuit instead of radiating it.

For most HF purposes, an excellent RF ground and a gp radial system look similar--a single fat wire back to the shack will not quite do the job. A fat wire surrounding the site enclosing the antenna and operating position, with radials from each grounding need point to the closest point on the wire--and many rods (can be shorter than ground rods) along the circumference will do the job--according to research done in several countries for military installations. Whether set up for RF grounding or as a GP radial system, the wires have little or no effect on the antenna performance. They do affect how well power gets to the antenna with the older voltage feed system.

HS and BC antennas perform perfectly well when current fed with no gp or RF ground system needed at the antenna. Hence, at VHF, we can elevate them to any desired height and achieve vertically polarized (mostly) patterns that are shaped like dipole and Yagi patterns (but they are horizontally polarized). The elevation patterns are perfectly standard as well.

The J-pole method of feed is a variant of the parallel tuned circuit feed and also requires a good RF ground. But a true current feed--using a 1:1 balun or choke at HF to eliminate common mode currents--provides the balance to eliminate the need for an RF ground per se and a few beads at VHF ought to do the same.

I hope this is useful.

-73-

LB, W4RNL

Date: Tue, 13 Apr 1999 07:58:36 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@Lehigh.edu
Subject: [38032] Numbers Stations -- where ever they are
Message-ID: <3713316C.3E2F@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys,

Numbers stations have been extensively reported on by Popular Communications magazine and also Monitoring Times. The consensus of their opinions are they are government stations broadcasting one way to "spies". One was located down in Florida, others in foreign capitals. I doubt you want to know much more but if you do, you didn't hear it here!

73

BTW, whether they are government or not, why would you expect them to follow conventions like frequency avoidance?

Date: Tue, 13 Apr 1999 08:28:26 EDT
From: Mark R Milburn <kq0i@juno.com>
To: qrp-l@lehigh.edu
Message-ID: <19990413.062810.13823.0.KQ0I@juno.com>

Scott, n3byy....
Your QSL card for N2EI (contact of 2/15/99) got mailed to me by mistake. Rather than send it on to him with my address on it, thought I would let you know so you could send him another...bet he would appreciate a clean one.

Best wishes.

72 Mark

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 13 Apr 1999 08:32:35 EDT
From: Jkn1olo@aol.com
To: bump-km3d@redrose.net, qrp-1@lehigh.edu
Subject: [38034] Re: IC-706 Power Consumption @ 5w ?(is this qrp?)
Message-ID: <afafb9e.24449363@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 4/12/99 4:47:10 PM Eastern Daylight Time,
bump-km3d@redrose.net writes:

<< My IC-706 Mk II measures about 2.5w output on 40m CW in the lowest
position;
the rig draws about 1a. on receive and almost another amp. to give the 2.5
watts - I wouldn't exactly call it a 'QRP' rig (hihi). >>

Hey, not all of use little tiny rigs with little tiny batteries. I have a 706
and don't consider its use diminishing anything from the QRP aspect. 2.5w is
2.5 watts or QRP, unless there is a new requiremnet abt power consumption vs
output power. OK, I've vented, I feel better. Adios.

72/73 (you pick)

John
N10LO

Date: Tue, 13 Apr 1999 08:05:57 -0500
From: David Heintzleman <bchurch@megavision.com>
To: qrp-1@Lehigh.EDU
Subject: [38035] (no subject)
Message-ID: <37134135.B0F47C0D@megavision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

suspend qrp-1 bchurch@megavision.com

Date: Tue, 13 Apr 1999 09:03:29 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-1@lehigh.edu
Subject: [38036] need help with an interface cable
Message-ID: <3.0.5.32.19990413090329.007fcc0@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am doing some beta testing for a gent. Its for a logging program and that's all I can say. What I need is a standard modem cable about 10 ft long. Here's the twist. I am using an Omni V and after talking with the wonderful tec folks (Don bieng one), I need to have pins 2 and 3 swapped. This is not noted in the manual, but when trying to get the software and Omni talking, no go.
So, I need to know if anyone can connect me to a source that could make this cable up. I have a molded modem cable, but lack the soldering ability to make such a mod. Those pins are mighty small.
In any case if you can help, please drop me a note and would appreciate it.

tnx es 72/73 de Scott/n3byy
Fists #5030

Date: Tue, 13 Apr 1999 06:16:38 -0700
From: Brian Murrey <brian@iquest.net>
To: rhayden@dzn.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38037] Re: 10.120MHz number station.
Message-ID: <99Apr13.062006pdt.17059@firewall.bellind.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

One night on 7415 I thought I was hearing a spanish numbers station...so I tuned in for the heck of it...

taco, burrito, tortilla, frejoles, taco, taco, guacamole

Over and over again....it finally dawned on me, someone was spoofing the spanish numbers lady!! It was hilarious.

R Hayden wrote:

>
> Wow again,
> It's hitting my little longwire under the roof at 58+ here in El Paso, Tx.
> A spanish female voice just calling out numbers.
> Rich

--

```
=====
KB9BVN :NORCAL #2792 FISTS #5695 QRP-L #1540
39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - NORCAL 40A - Attic Dipole - 1.5w
Proud to be a member of the American Radio Relay League
=====
```

Date: Tue, 13 Apr 1999 09:25:15 -0400
From: "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>
To: qrp-l@lehigh.edu
Subject: [38038] RS Power supply
Message-ID: <293FEF237633D211882D0000C0F9B1F44C85AE@OH0012EXCH006U>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello

I have been reading about this new power supply at RS. Does anyone have a part number of this unit? The stores here don't know anything about it. Or is it one they have had a while and we are just now trying it out and finding it pretty good? The one here I was able to find is priced at \$39.99 so I really don't think that is it because others have been saying the price is about \$50.00.

Marty

Date: Tue, 13 Apr 1999 06:28:23 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>

To: brian@iquest.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [38039] Re: 10.120MHz number station.
Message-ID: <37134677.FBB15BEB@vdbbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> One night on 7415 I thought I was hearing a spanish numbers station...so
> I tuned in for the heck of it...
>
> taco, burrito, tortilla, frejoles, taco, taco, guacamole

It sounds like someone was just practicing for this years QRPTTF!

Can't wait.

--
73 de AC6KW <mailto:grudin@vdbbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Tue, 13 Apr 1999 09:36:34 -0400
From: Laura Halliday <lha@sdr.utias.utoronto.ca>
To: qrp-l@lehigh.edu
Subject: [38040] Spread Spectrum - more
Message-ID: <3.0.6.32.19990413093634.007a8480@madrox>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For the terminally curious, look up U.S. patent 2,292,387
"Secret Communication System" granted on 11 August 1942 to
Hedy Kiesler Markey (yes, aka Hedy Lamarr) and George Antheil.

Antheil was a pianist, and it shows - they used player piano
innards where we would now use feedback shift registers
to create what we would now call pseudo-noise sequences.

Laura Halliday VA3LDH "Que les nuages soient notre pied
Grid: FN03gs a terre..." - Hospital/Shafte

Date: Tue, 13 Apr 1999 09:40:03 -0400

From: Dick Rucker <rrucker@clark.net>
To: Laura Halliday VA3LDH <lha@sdr.utias.utoronto.ca>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: w4zc@clark.net (Jack Kelleher), Jim Wilcox <w3wv@att.net>, Andre V Kesteloot <akestelo@bellatlantic.net>, thines@mitre.org (Terry Hines, N4ZH), w4ee@aol.com (Jim Laughter, W4EE)
Subject: [38041] Re: Spread Spectrum
Message-ID: <v04011701b338e5b0f91f@[207.196.47.58]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 3:31 PM -0400 4/12/99, Laura Halliday wrote:

>Spread Spectrum seems to be the cause of more disinformation
>in ham radio circles than just about any other technological
>development since radio itself...

>

>The main thing it can do for us as hams is make it easier to
>share bands. By spreading an otherwise-narrow signal over a
>large bandwidth, the energy in a given bandwidth is small,
>making it less likely to interfere with others. Including
>other hams.

Laura,

At breakfast this morning, I read in the latest Amsat Journal the first half of your translation from French of F6AGR's article on the design and construction of log-periodic dipole arrays (LPDA). That's a keeper!

Re: spread spectrum. Several years ago, I thought I might like to get involved spread spectrum experimentation. This was largely based on a few website articles by Phil Karn KA9Q and a talk by Andre Kesteloot N4ICK of AMRAD. Andre gave his talk to our local Vic Clark chapter of QCWA.

However, I quickly became discouraged because of

- the technical sophistication needed to comprehend SS and
- the apparent difficulties that attended the notion of building working versions of the genre.

Just recently, I have become enamoured with Peter Martinez's new digital mode "PSK31" and his sound-card-using Windows application of it. Here are just a few things I like:

- I can understand how PSK31 works in a way that eluded me when it came to the methods of spread spectrum encoding and decoding. I suspect that's because PSK31 deals in many concepts that are long familiar while using some really clever and modern technology to make it a practical new mode.

- It is very conservative of electromagnetic spectrum. With it, one can

make very good use of IF and AF filtering in one's receiver to minimize the effects of other transmitters, regardless of mode, operating nearby. For example, I am wondering whether an IF filter designed for CW use (i.e., 250 to 500 Hz wide) might not be too wide for close-in PSK use! My Yaesu FT847 seems frequency-stable enough, and has the right kind of tuning mechanisms, to consider using a narrower PSK31-specific filter.

- PSK31 signals have an almost musical audio quality that is easily recognizable when heard. RTTY and xTOR signals now sound irritating and seem wasteful of spectrum to me.

- I find it comforting to know that each PSK31 signal need produce no objectionable sidebands beyond its two 31.25 Hz wide sidebands either side of the offset frequency of, say, 700 or 1000 Hz, so long as the transmitter is not being over-driven.

Compare my list above with the characteristics of spread spectrum signalling; seems to me that the contrasts are pretty stark and in favor of PSK31 type signalling as the way to go, at least for conversational mode digital traffic.

In particular, the consequences of unavoidably raising the noise floor for everyone in a given band (however wide) as more and more spread-spectrum users come on board, just seems to me to be the wrong way to go, if our aim is to evolve toward methods of spectrum sharing and re-farming that are relatively conflict-free and that minimize the need for strict and expensive government controls that Congress is not likely to fund in any event.

For example: given that certain existing sub-bands are opened up for spread spectrum experimentation and use, how might FCC Legal Advisor for Enforcement Riley Hollingsworth K4ZDH ever manage to put a lid on those whose main challenge in life seems to be finding ways to make communication difficult for everyone else? The pathology of these folks seems uncurable, so it must be dealt with somehow.

As I typed that, I had in mind the white-noise jammer heard on 3950 kHz last night, while I was puttering in my ham shack. According to one ham participating in the roundtable, this jammer had been lurking on the frequency off-and-on for the last 48 hours. Apparently, his method is to wait for a weak-enough signal, then broadside it with his white-noise blast. Sick, but true.

I'd like to hear more about how "spread-spectrum" as a hobby might become more than the exclusive domain of the commercial vendors of ready-to-wear equipment and not simply become a more sophisticated method to foul our shared spectral nests.

Dick

Richard A. "Dick" Rucker
City of Fairfax, VA
Amateur radio KM4ML

Date: Tue, 13 Apr 1999 06:36:15 -0700
From: Thomas Kuehl <ac7a@uswest.net>
To: qrp-1@Lehigh.EDU
Subject: [38042] Medium Wave Web-site
Message-ID: <3713484E.23EA02B1@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A few months back, had the pleasure of having the com-port associated with my modem dissapear. I had loaded the new V90 drivers for my modem form the manufactures web-site; and things really went downhill from there. Anyway, I had to take my machine back to "zero" to get things working again.

In the process, I lost all of my bookmarks. One particularly good AM radio information site has since eluded me. It was a Medium Wave or AM broadcast site, that featured radio buttons. If you clicked on a radio button, each of which had a frequency like 890 KHz labled on it, a listing with all the stations in the US and their location came up. Now the FCC has something like this, but thats not the particular site I am looking for.

I like to cruise the AM broadcast band looking for distant stations. Any help from the group is appreciated.

Regards, Thomas - AC7A

Date: Tue, 13 Apr 1999 09:49:37 -0400
From: "Stephen Gibson" <SWGibson@worldnet.att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [38043] Spring sale item
Message-ID: <005601be85b4\$c6abade0\$a8754e0c@default>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The original deal for the OHR 100A fell thru today. I'm sorry but I didn't keep a list of the others who wanted it so the rig is up for grabs again for \$75.

Steve, WB4NBI

Date: Tue, 13 Apr 1999 10:43:22 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-1@lehigh.edu
Subject: [38044] got my answer on cable
Message-ID: <3.0.5.32.19990413104322.007ff910@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

of course as usual a question is asked and many an answer come back. What a great group of people. I haven't had to bother with null modem cables and the like for some time and sure enough once folks started pointing this out to me it became obvious. Yeah, big qro flash of light and a clap of thunder. Ok, so tnx to everyone who replied. I'll rush down to the local RS and get me one of those thingies and have at it.

73 de Scott/n3byy
who used to know something before he started a regular job.<g>
Laurel MD

Date: Tue, 13 Apr 1999 10:56:54 -0400
From: "Richard Brummer" <obvious@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <whowell@hq.nasa.gov>
Subject: [38045] Re: need help with an interface cable
Message-ID: <000201be85be\$6e22afc0\$4e685ed1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Scott,

I had something which amounted to a small circuit board with two DB25 connectors on it, each wired to a set of 25 pins. With short jumpers, you could wire any pin on the input to any pin on the output. I purchased this from Heathkit several years ago, but have misplaced it. Perhaps one of the computer outlets might have something similar. This might be easier and less expensive than obtaining another cable for your testing.

73,

Dick K2REB

Date: Tue, 13 Apr 1999 11:00:00 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@lehigh.edu
Subject: [38046] kinda qrp but qslmaker program question
Message-ID: <3.0.5.32.19990413110000.008055a0@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

well qrp in that I finally got my cards caught up even though a few might have gone to the wrong folks. WEll maybe the right folks and wrong calls. See this is what happens when qsling gets behind so don't let that happen to you.

How does one save the qsl info in Qslmaker. I tried just doing the file save as and no luck. The machine crashed a few times and made me enter all 36 cards again. After 3 times I finally got them done, but that's how mistakes ahappen.

Also, have a HP690C and no matter how I set my colors, it isn't printing them as it should. I made sure the print in gray scale was not checked etc. any thoughts could you pass them on via private mail as not to jam the list?

tnx es 73 de Scott/n3byy

who promises not to let qsling get this far behind again. ok am doing better. I was a year behind, then a few months behind, and now only a few days.

So, that's not bad.

Date: Tue, 13 Apr 1999 11:06:18 -0400
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [38047] Solar Flux ?
Message-ID: <37135D6A.E5656C3D@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is the current sunspot cycle over? The chart at:
<http://www.dxl.com/solar/>
shows that we hit our peak and are on our way back down. Will we see SF
at 200 any time soon?

Ed AB8DF

Date: Tue, 13 Apr 1999 10:12:55 -0500
From: "Mark A. Andrews" <KE4IOF@HiWAAY.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [38048] Re: need help with an interface cable
Message-ID: <00fd01be85c0\$532b3c30\$1d20010a@benchcraft>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> I had something which amounted to a small circuit board with two DB25
> connectors on it, each wired to a set of 25 pins. With short jumpers, you
> could wire any pin on the input to any pin on the output. I purchased
this

This is commonly called an RS-232 Breakout Box. Most electronics
distributors can sell you one.

Mark, KE4IOF
QRP-L #146

Date: Tue, 13 Apr 1999 10:45:08 -0500 (CDT)
From: Jim Glover <psykey@okcforum.org>
To: qrp-l@lehigh.edu

Subject: [38049] Sick Pixie update
Message-ID: <199904131545.KAA02621@okcforum.org>
Content-Type: text

After writing my "Sick Pixie" post last night, I did a couple of basic checks.

I used the same power-measuring circuit to measure the power output of something (more or less) known--an OHR QRP Explorer II. My power-measuring circuit rated it at 1.96 watts out, very close to the 2 watts that the rig is rated for. So, I assume there's nothing wrong with my power-measuring setup. The Pixie really is putting out about 64 microwatts.

The other really simple, obvious test I did, was try another crystal. Same results.

So... anyone have any troubleshooting advice? Any idea what could be wrong with a Pixie that receives OK, but puts out extremely low power on transmit? Is there anything I can do more sophisticated than just start buying replacement parts and replacing one circuit element at a time until I (hopefully) happen to fix one that's broken?

--Jim WB5UDE

Date: Tue, 13 Apr 1999 11:54:33 -0400
From: "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>
To: qrp-1@lehigh.edu
Subject: [38050] Power supply
Message-ID: <293FEF237633D211882D0000C0F9B1F44C8675@0H0012EXCH006U>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello All

Thanks to all who responded with the new power supply part number.

Marty

Date: Tue, 13 Apr 1999 11:01:47 -0500 (CDT)
From: PHILLIPS RICHARD <phillips@msoe.edu>
To: Edward A Kwik jr <eakwikjr@hti.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [38051] Re: Solar Flux ?
Message-ID: <Pine.OSF.3.96.990413110004.22445B-1000000@torres.msoe.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Could that be used in place of that water soluble flux we were talking about not long ago? Just put it in the sun to clean it up.

73,

Richard Phillips
Lab Technician
Milwaukee School of Engineering
414-277-7388, phillips@msoe.edu

Date: Tue, 13 Apr 1999 12:04:10 -0400
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [38052] Antenna patterns
Message-ID: <37136AF9.638A9C93@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

With the good weather just around the corner it is time for me to get into a summer antenna project. Last summer I put up a 105 foot center feed dipole at 40 feet. Before I decide what antenna to do to augment the dipole, I thought I would try to characterize the dipole a little. So here is my question. Has anyone used their log data to plot locations worked? Seems that if you had enough data points you could plot them on a map and get an indication of your antenna patterns. Has anyone come across software or web site that will plot locations on a map? If you were to do it by hand what type of map would you use?

Ed AB8DF

Date: Tue, 13 Apr 1999 12:11:45 -0400
From: "Tracy, Michael, KC1SX" <mtracy@arrl.org>
To: "'QRP Email List'" <qrp-1@lehigh.edu>
Subject: [38053] Reminder - NEQRP meet at ARRL HQ this Sunday!
Message-ID: <8060D04206ABD2118C6800805FC743CC031CBF@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Just a quick reminder that the "Snow Date" (rescheduled) meeting of the NEQRP club will be this Sunday at ARRL HQ in Newington. The meeting will start around 9ish. Fresh coffee, donuts and bagels will be available. After lunch a W1AW/QRP operation will take place.

Driving directions and information on other club events is available on the club web page at:

<http://www.eichhoff.com/neqrp/>

(anyone without web access can email me for a copy of the directions).

72, Michael Tracy, KC1SX

Date: Tue, 13 Apr 1999 09:29:31 -0700
From: Brian Murrey <brian@iquest.net>
To: obvious@bestweb.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38054] Re: need help with an interface cable
Message-ID: <99Apr13.093303pdt.17029@firewall.bellind.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The ever popular "breakout" box.

No hardware hack should be without a couple.

Richard Brummer wrote:

>
> Scott,
>
> I had something which amounted to a small circuit board with two DB25
> connectors on it, each wired to a set of 25 pins. With short jumpers, you
> could wire any pin on the input to any pin on the output. I purchased this
> from Heathkit several years ago, but have misplaced it. Perhaps one of the
> computer outlets might have something similar. This might be easier and
> less expensive than obtaining another cable for your testing.
>
> 73,
> Dick K2REB

--

=====
KB9BVN :NORCAL #2792 FISTS #5695 QRP-L #1540
39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - NORCAL 40A - Attic Dipole - 1.5w
Proud to be a member of the American Radio Relay League
=====

Date: Tue, 13 Apr 1999 13:10:35 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: "Qrp-L@Lehigh.Edu (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [38055] Radio Shack PS
Message-ID: <000801be85d0\$8ea321a0\$67c3fea9@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All,

I called 1-800-THE SHACK (Radio Shack Unlimited) and was told that it takes normally 30-60 days once a new product is introduced for all information (service manuals, schematics, etc.) to be received by their service support staff.

So the information on the 22-503 Mini swithching PS should be forthcoming.

73 de KF4CPJ
George Goodroe
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>

Date: Tue, 13 Apr 1999 17:11:27 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-l@lehigh.edu
Cc: Bruce2@prodigy.net, cebik@utkux.utcc.utk.edu
Subject: [38056] Re: "pruning" temporary antennae
Message-ID: <37137ABF.62DD@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bruce Shared with us:

Jim,

Thought this simple idea might help you.

A mathematical analysis of a simple half wave dipole, center fed will show

that 87% of the antenna current is contained in the middle 67 percent of the wire.

As you can see from this--what happens at the ends of the wire have little

or no effect on the effectiveness on the radiation of the antenna itself.

Hope this helps you.

Bruce WB4WZL

---end paste --

Hi Bruce et. al. Although I know what you say to be true. It just dawned on me that any adjustment from 'half wave' electrical length will still change these numbers. But by how much.

I don't have software to determine this, and perhaps available time is limiting me from answering my own question.

What I'd like to know is how much of the antenna has 87% of the current as the antenna is lengthened and shortened?

Example:

-----+-----	
Ant Elec. length	87% Current density length
-----+-----	
.40 wave	72%???
.45 wave	69%???
1/2 wave	67%
.55 wave	69%???
.60 wave	72%???

(I'm just guessing that the half wave has the smallest section containing 87% of the current. And the ends have the least % effect when near 1/2 wave but the ends are more important as you digress from 1/2 wavelength electrically.)

Anyone have the answer?

Also it would be nice to see efficiency numbers in a 3rd column. Perhaps quantifying 'little effect' with dBd information.

Or do I need some more coffee :)

Thanks. 72/Ed WE6W/6

--

-Ed AR QRP Millennium QSO's=560/2000
72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 ARS#275

Date: Tue, 13 Apr 1999 07:35:50 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: whowell@hq.nasa.gov
Cc: qrp-l@lehigh.edu
Subject: [38057] Re: need help with an interface cable
Message-ID: <3.0.6.32.19990413073550.00876660@pop-server>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Scott -

RS-232 pins 2 and 3 are transmit and receive on DTE type interfaces and vice versa on DCE equipment. DTE equipment is classed as terminals, CRTs and computers while DCE is classed as modems. DCE stands for Data Terminal Equipment and DCE stands for Data Communications Equipment. If going from DTE to DCE (computer to modem) the cable pins 2 & 3 should be straight thru, not crossed as pin 2 is transmit on DTE and receive on DCE and pin3 is receive on DTE and transmit on DCE. Look at the chart below.

DTE (Computer)	DCE (modem)
2 (xmit)	--> 2 (recv)
3 (recv)	<-- 3 (xmit)

Now if going DCE to DCE or DTE to DTE (modem to modem or computer to computer) the pins need to be swapped or crossed as you describe. This is known as a "null modem" cable. So the table looks like so.

DCE (modem)	DCE (modem)
2 (recv)	<-- 3 (xmit)
3 (xmit)	--> 2 (recv)

So in order to get this you just need to swap pins 2 & 3 on one end

of the cable, You need a cable with hoods which screw together,
you can easily open it up and move the pins with a pair of needlenoses.
Gently pull the pins from the backside of the rs232 metal chassis
till they are dangling free then push them into the correct pin holes.

If you want to make up a cable you probably can get the cable, hoods and
pins from your local electronics supply store (not Rat Shack). The pin
crimper costs a good bit of money and its a hassle to solder all 25 pins.

You may not need all 25, you need to look at the RS-232 specs for each of the
pieces of equipment you are trying to connect and determine exactly which
pins are

needed. If it's just 2 & 3 you need then 1, 2, 3 & 7 will suffice - 1 and
7 are

ground and frame ground. Also check out if you need 5 and 6, those are used
for hardware flow control, they are RTS and CTS (Request To Send and Clear
To Send).

The two devices connected together have to be able to signal each other
when to

stop sending (their buffer is full) and when to start again. This can be
done

with software, i.e. ^S and ^Q in the data stream or via hardware control lines
5 & 6 on the cable. The latter is much preferred.

&3's & Aloha, Art Neilson KH7PZ in Hawaii

At 09:03 AM 4/13/99 -0400, you wrote:

>I am doing some beta testing for a gent. Its for a logging program and
>that's all I can say. What I need is a standard modem cable about 10 ft
>long. Here's the twist. I am using an Omni V and after talking with the
>wonderful tec folks (Don bieng one), I need to have pins 2 and 3 swapped.
>This is not noted in the manual, but when trying to get the software and
>Omni talking, no go.

>So, I need to know if anyone can connect me to a source that could make
>this cable up. I have a molded modem cable, but lack the soldering ability
>to make such a mod. Those pins are mighty small.

>In any case if you can help, please drop me a note and would appreciate it.

>

>tnx es 72/73 de Scott/n3byy

>Fists #5030

>

```
--
/  )    _/_  It is a capital mistake to theorise before one has data.
/--/  __ /   Insensibly one begins to twist facts to suit theories,
/ ( _/ ( _<__ Instead of theories to suit facts.
```

-- Sherlock Holmes, "A Scandal in Bohemia"

Arthur W. Neilson III, KH7PZ

Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Tue, 13 Apr 1999 13:56:24 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-1@lehigh.edu
Subject: [38058] Re: Spread Spectrum
Message-ID: <37138548.3BCC@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

John Moriarity wrote:

> From: Vic Rosenthal <rakefet@rakefet.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Date: Tuesday, April 13, 1999 1:00 AM
> Subject: Re: Spread Spectrum

> > My worry is that large-scale use of spread-spectrum will
> > cause a general increase in noise level, which would impact
> > the very signals that I am most interested in receiving --
> > weak DX and QRP signals. Now, although there are situations in
> > which CW signals are interfered with by other narrow-band signals,
> > it is possible to QSY to avoid them. When my neighbor (1/2
> > km away) opens up with his KW, I can still work DX 10 or 15 kHz away
> > (I have a good RX). But it seems to me that if he were to distribute
> > his KW over the whole band, I could work locals anyplace, but DX noplac.

> >This is all conjecture, of course. Am I off base?

> You are absolutely right, Vic. One or two SS signals on a
> band aren't a problem, but a lot of them are!

There are some wonderful and interesting things about SS that make it appealing. To me, the most appealing thing about it is that it is a technology that hams can explore. For example, if you were to beam a widely spread SS signal at an amateur satellite, a large number of SS QSOs could take place at a level that narrow-band users couldn't even hear. Neat. But it is NOT a panacea; in many amateur applications, the near/far problem will get you every time; if an SS station runs enough power to communicate with a far-away station, the nearby station will be absolutely overwhelmed.

A Direct Sequence SS signal consists of a high-speed digital signal of a known sequence onto which a slower-speed signal is modulated. This can result in a phenomenon known as "process gain" or "jam margin." The term "process gain" is actually a bit of a misnomer; there is no real gain involved. If it takes 1 W to communicate over a given path, it takes approximately 1 W to do so using SS. But that 1 W will be spread over a wide bandwidth, making the amount of energy present in any arbitrary narrow bandwidth less than the amount would be ON THAT FREQUENCY if the signal were not spread. The "jam margin" of an SS signal also allows it to reject other SS signals or narrowband users by that amount -- ie, if you have 30 dB of jam margin, you will have 30 dB of rejection of other SS signals or narrowband users.

But the whole premise of viable SS operation works best ONLY if all the received signals (SS or narrowband) are at the same approximate level. If you have 30 dB of jam margin, and are listening to an SS signal and another SS signal comes on the air on the same band that is 40 dB stronger than the one you are listening to, you can no longer copy the desired signal. Even on UHF, signals on a band can be >> 30-40 dB different in signal strength. This applies generally to narrowband signals, although with various notching techniques, you can get more than "jam margin" rejection of narrowband signals. Some cellular telephones use SS, but they closely control the power of the cell phones so that at a given site, everyone is about the same strength.

Some Part 15 devices also use SS, for two reasons. First, the rules permit more power if the Part 15 device uses SS, so the manufacturers have built SS into the designs. Also, in an anarchistic system, if you want maximum rejection of other users and do NOT want to QSY to find a clear channel, SS gives you the most rejection. It also assumes that you don't care WHAT you do to the other guy -- Part 15 is really an "everyone for one's self" environment wrt other Part 15 users.

Let's analyze Direct Sequence SS signals. Let me postulate a case that is pretty close to being "best case."

Assume 420 MHz operation, a total transmit power of 1 W, 30 MHz of spread, 0 dBi transmit and receive antenna gain, 0.5 km separation. The receiver has a 6 dB noise figure and 500 Hz bandwidth. The results are:

RESULTS

Frequency = 420 MHz

Total transmit power = 1 watts

Total transmit power = 30 dBm

Transmit spread = 3×10^7 Hz

Receiver bandwidth = 500 Hz

Spreading loss relative to receiver bandwidth = 47.78151 dB

Transmit power in 500 Hz = -17.78151 dBm

Transmit antenna gain = 0 dBi
Receive antenna gain = 0 dBi
Distance to receiver = .5 km
Free-space pathloss = 78.89439 db
Total loss +/- antenna gains = 78.89439 dB
Total Power density mW/cm^2 = $3.183102\text{E-}06$ mW/cm^2
Receive system Noise Figure 6 dB
Calculated receive system sensitivity in 500 Hz bandwidth = -141.0103 dBm
Received noise in receiver bandwidth = -96.6759 dBm
Receive system noise floor increase in dB = 44.33456 dB

As you can see, that single 1 W SS station under these circumstances will raise the noise floor by at least 44 dB -- across the entire 420-450 MHz range.

Now, let's look at 3.5 MHz. Again, this is assuming a Direct Sequence SS station, 1 W, 0 dBi gain, this time spread over 0.5 MHz. Let's give the receiver a 24 dB noise figure (to account for higher atmospheric noise), still 500 Hz:

RESULTS

Frequency = 3.5 MHz
Total transmit power = 1 watts
Total transmit power = 30 dBm
Transmit spread = 500000 Hz
Receiver bandwidth = 500 Hz
Spreading loss relative to receiver bandwidth = 30 dB
Transmit power in 500 Hz = 0 dBm
Transmit antenna gain = 0 dBi
Receive antenna gain = 0 dBi
Distance to receiver = .5 km
Free-space pathloss = 37.31076 db
Total loss +/- antenna gains = 37.31076 dB
Power density mW/cm^2 = $3.183102\text{E-}06$ mW/cm^2
Receive system Noise Figure 24 dB
Calculated receive system sensitivity in 500 Hz bandwidth = -123.0103 dBm
Received noise in receiver bandwidth = -37.31076 dBm
Receive system noise floor increase in dB = 85.69954 dB

So this signal would give you about an S9+36 dB noise level, across the entire band. Actually, it would probably be as much as 20 dB lower than that -- most 80 meter antennas don't put out much energy at the horizon. So, subtracting 20 dB, the noise floor would be increased by only 65.7 dB, to about S9+15 dB.

Now, to get really ugly, here is 1500 W on 80 meters:

Frequency = 3.5 MHz
Total transmit power = 1500 watts
Total transmit power = 61.76091 dBm
Transmit spread = 500000 Hz
Receiver bandwidth = 500 Hz
Spreading loss relative to receiver bandwidth = 30 dB
Transmit power in 500 Hz = 31.76091 dBm
Transmit antenna gain = 0 dBi
Receive antenna gain = 0 dBi
Distance to receiver = .5 km
Free-space pathloss = 37.31076 db
Total loss +/- antenna gains = 37.31076 dB
Power density mW/cm^2 = $4.774652\text{E-}03$ mW/cm^2
Receive system Noise Figure 24 dB
Calculated receive system sensitivity in 500 Hz bandwidth = -123.0103 dBm
Received noise in receiver bandwidth = -5.54985 dBm
Receive system noise floor increase in dB = 117.4604 dB

Press any key to continue

I will add that these Direct Sequence systems are probably NOT what will be implemented on HF. Frequency hopping is more likely. In a frequency hopping system, that single station would be sending very fast dits, modulated with digital signals, up and down the band. Keying sidebands aside, one would hear a loud pop every 10 seconds (randomly, on average) from a nearby station. Best case, it would be scarcely noticable; worst case, there would be so many that it all went back to noise.

> Besides, can you imagine tuning a band by incrementing
> Pseudonoise codes and waiting to see if you acquire a
> signal? The more stations on the band, the more codes needed,
> and the longer they will have to be. That means longer to acquire lock.

Actually, I can imagine it, and the lockup time really shouldn't be all that long.

> Sounds like operating 2 meters with a keypad to me.

I think the real thrill is in the doing. There is a lot of room for innovation in the SS and digital arena; I would love to see what amateurs can bring to the table. As much as we love CW and SSB, the future of radio seems to be in the digital area and I fear hams instead of leading the way as we once did, hams are falling behind the times.

> John, K6QQ (who has designed SS systems for a living)

Then, please, correct me if I am wrong. :-) These are some back of envelope calculations, using a Basic program I have been evolving over the past months.

73,
Ed, W1RFI

Date: Tue, 13 Apr 1999 13:57:53 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: "Qrp-L@Lehigh.Edu (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [38059] Amateur Radio Spectrum Protection Act of 1999
Message-ID: <000901be85d7\$291298a0\$67c3fea9@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This month's QST magazine features an article covering the Amateur Radio Spectrum Protection Act of 1999, HR.783, sponsored by Clearwater Florida's own U.S. Representative, the honorable Mike Bilirakis. The article appears beginning on page 15.

If you receive QST, I recommend you read this article. If not, you can follow the link: <http://www.arrl.org/govrelations/hr783.html> to pick up some more info.

The reason for this post is to passionately urge all amateur radio operators to write or e-mail their congressman and ask them to support this bill. This is easier than you think. There is a federal website at <http://www.house.gov/writerep/> that you can use to look up your congressman and send them a note. ARRL has posted a sample letter that you can cut and paste from their website at the link above.

This bill is EXACTLY the kind of protection our spectrum needs in the face of current-day spectrum auctions, and the value and attractiveness of our allocations to commercial interests. The bill is similar to HR.3572, a bill also sponsored by Bilirakis during last year's congressional session. Last year's bill was introduced late in the session, and failed to be acted on before the session closed. Thus, we must make a plea to our legislators to support and move on this bill.

73 de KF4CPJ

George Goodroe
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>

Date: Tue, 13 Apr 1999 13:48:46 -0700
From: w4bws@juno.com
To: rhayden@dzn.com
Cc: qrp-1@Lehigh.EDU
Subject: [38060] Re: 10.120MHz number station.
Message-ID: <19990413.135746.-69777.2.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Must be those SouthAmerican submarines on patrol in the pacific
Don W4BWS

On Mon, 12 Apr 99 22:48:34 MST R Hayden <rhayden@dzn.com> writes:
>Wow again,
> It's hitting my little longwire under the roof at 58+ here in El
>Paso, Tx.
> A spanish female voice just calling out numbers.
> Rich
>
>

Don Sanders W4BWS
694 E. Eau Gallie Blvd
Satellite Beach ,FL 32937
My favorite QRP rig glows in the dark

Date: Tue, 13 Apr 1999 13:36:00 -0700
From: w4bws@juno.com
To: jmlowman@ix.netcom.com
Cc: qrp-1@Lehigh.EDU
Subject: [38061] Re: here's a stupid idea...
Message-ID: <19990413.135746.-69777.0.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Not a bad idea for the K2 kit either- and I would sure like to have a couple of those nut starters in the tool box. I have worn out many of them, just dont see them in Wallymart hardware dept.
Don W4BWS

On Mon, 12 Apr 1999 17:27:57 -0700 Jim Lowman <jmlowman@ix.netcom.com> writes:

>Mighty Mik wrote:

>>

>Those of us who can remember the days

>of assembling Heathkits recall that a small quantity of solder was

>always supplied with each kit, which was always more than necessary

>for the assembly. Oh, and I lost count of all the nut starters that were

>supplied with Heathkits.

>

>72 de Jim - AD6CW

>

Don Sanders W4BWS

694 E. Eau Gallie Blvd

Satellite Beach ,FL 32937

My favorite QRP rig glows in the dark

Date: Tue, 13 Apr 1999 14:04:36 -0400

From: Russ Hines <radioruss@fuse.net>

To: eakwikjr@hti.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [38062] Re: Solar Flux ?

Message-ID: <37138734.3D2C2892@fuse.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

No, sir, the current sunspot cycle is just underway. The chart at the URL you quoted is just a 4 week plot... kind of short for a cycle that approximately 11 years duration.

Not to worry, the fun has just begun.

73,

WB8ZCC

Edward A Kwik jr wrote:

>
> Is the current sunspot cycle over? The chart at:
> <http://www.dxlc.com/solar/>
> shows that we hit our peak and are on our way back down. Will we see SF
> at 200 any time soon?
>
> Ed AB8DF

Date: Tue, 13 Apr 1999 14:09:10 -0400
From: Russ Hines <radioruss@fuse.net>
To: eakwikjr@hti.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [38063] Re: Solar Flux ?
Message-ID: <37138846.739873E4@fuse.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just when I thought UP was down. ;-)

Actually, the chart is about a 10 week plot. My mistake. Now wearing a
flame retardent suit.

73,
WB8ZCC

Russ Hines wrote:

>
> No, sir, the current sunspot cycle is just underway. The chart at the URL
> you quoted is just a 4 week plot... kind of short for a cycle that is
> approximately 11 years duration.

Date: Tue, 13 Apr 1999 13:30:34 -0500
From: "V.C. Angell" <angell@northernnet.com>
To: qrp-1@Lehigh.EDU
Subject: [38064] FS:OHR 100A
Message-ID: <103120600b3393cfb5e41@[205.198.127.156]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

30 meter OHR 100A for sale for the best offer.
Factory alined.

Reason for sale is my wife, KB0R0D, has turned to HF and we put a FT-840 in

the OHR 100A's place on the operating desk. (plus the sale will help pay off the credit card. Hi Hi)

"VC" KCOEM

Date: Tue, 13 Apr 1999 12:49:46 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [38065] RE: 10T Dials
Message-ID: <3.0.3.32.19990413124946.0094b710@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Regarding the counter-dials that I posted info about yesterday:

I was NOT able to get any of the 1.8-in. dials. :-)

I was able to get 125 of the 1-in. dials and they have all been spoken for. I will wait until the first week in May and if any are unclaimed by then, or I'm able to get more, I'll post info here on QRP-L. My cost for these dials, by the way, turned out to be \$0.7425 each -- talk about a BARGAIN! :-)

72, Larry W1HUE/7

End of QRP-L Digest 1425

